

## CLAIMS

1. The use of a superoxide dismutase and glutathione reductase mimetic as an antitumor and leukocyte-protecting active ingredient, for obtaining an anticancer medicinal product.
2. The use as claimed in claim 1, characterized in that said mimetic is mangafodipir.
3. The use as claimed in either one of claims 1 and 2, characterized in that said mimetic is used in combination with an antitumor agent capable of inducing a reactive oxygen species production in cells.
4. The use as claimed in claim 3, characterized in that said antitumor agent is chosen from doxorubicin, mitomycin C, etoposide, platinum derivatives, tamoxifen, taxol, 5-fluorouracil, irinotecan, gemcitabine, endoxan, streptozotocin, bleomycin and vincristine.
5. A pharmaceutical composition comprising a superoxide dismutase and glutathione reductase mimetic, combined with an antitumor agent chosen from oxaliplatin, 5-fluorouracil and taxol.
6. The pharmaceutical composition as claimed in claim 5, characterized in that said mimetic is mangafodipir.